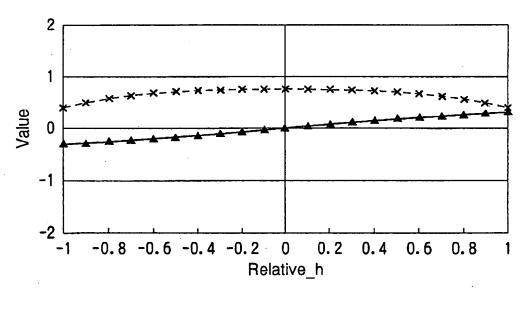


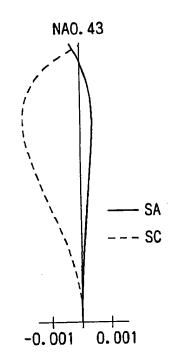
FIG. 1



---- CONDITION(3)

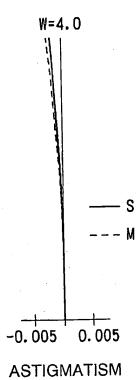
FIG. 2

FIG. 3



SPHERICAL ABERRATION SINE CONDITION

FIG. 4



Y = 0.00

Y= 0.02 (W= 1.30)

Y = 0.05 (W = 2.70)

Y = 0.07 (W = 4.00)

FIG.5A

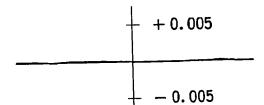


FIG.5B

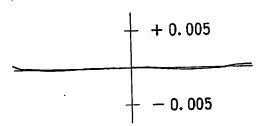


FIG.5C

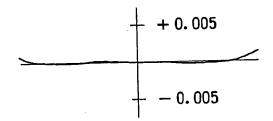
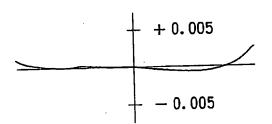


FIG.5D



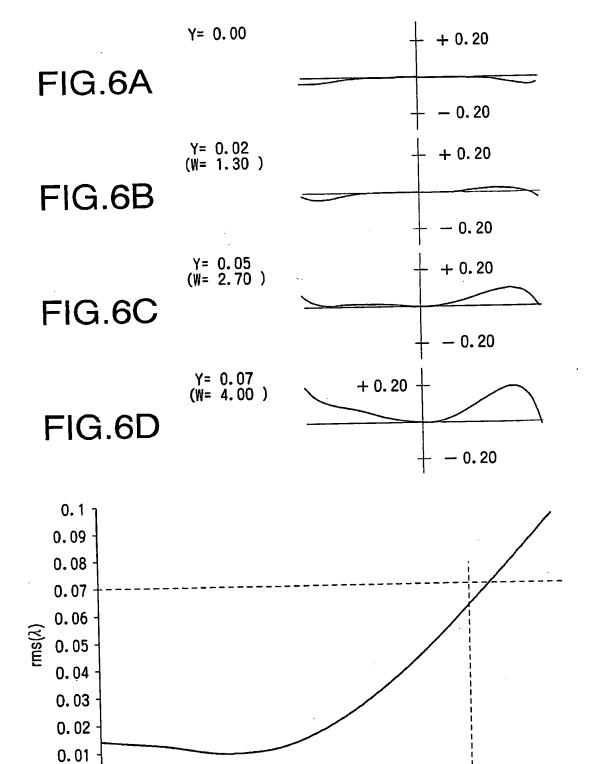
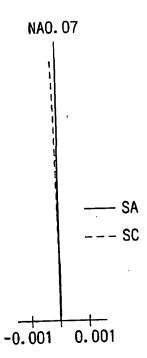


FIG. 7

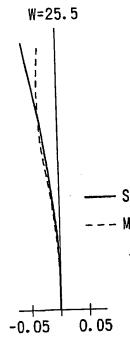
FIELD ANGLE (deg)

FIG. 8



SPHERICAL ABERRATION SINE CONDITION

FIG. 9



ASTIGMATISM

FIG.10A

Y = 0.00

Y = 0.15 (W = 8.50)

Y = 0.29 (W=17.00)

Y= 0.43 (W=25.50)

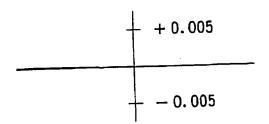


FIG.10B

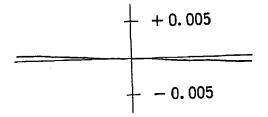


FIG.10C

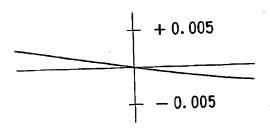
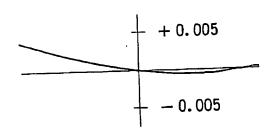


FIG.10D



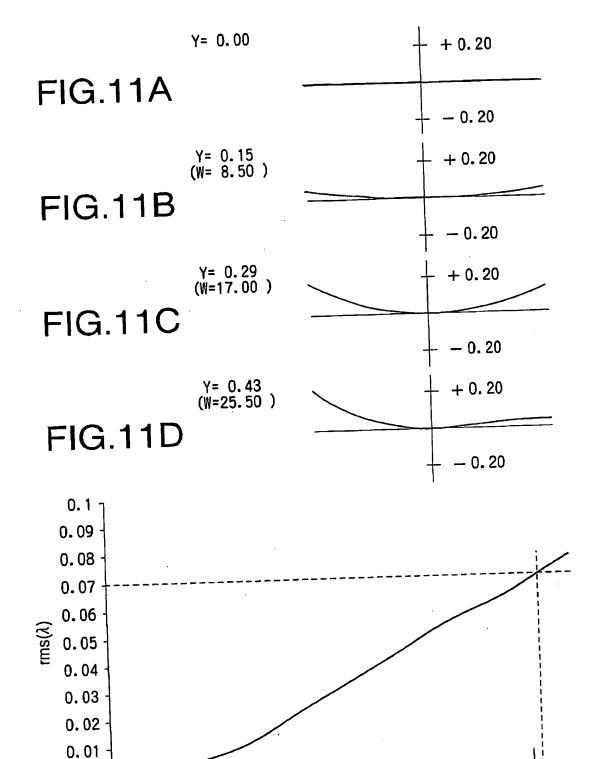


FIG.12

FIELD ANGLE (deg)

25.5

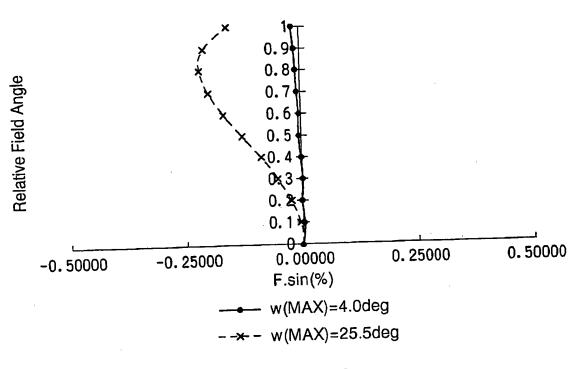


FIG.13

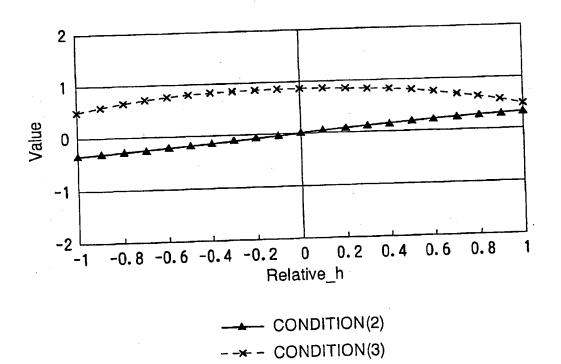
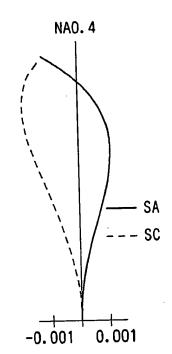


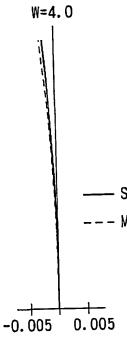
FIG.14

FIG.15



SPHERICAL ABERRATION SINE CONDITION

FIG.16



ASTIGMATISM



Y = 0.00

Y = 0.02 (W = 1.30)

Y=0.05 (W= 2.70)

Y= 0.07 (W= 4.00)

FIG.17A

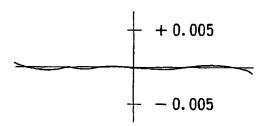


FIG.17B

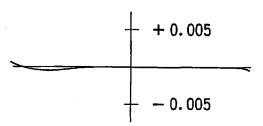


FIG.17C

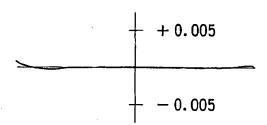
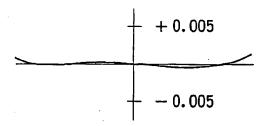


FIG.17D



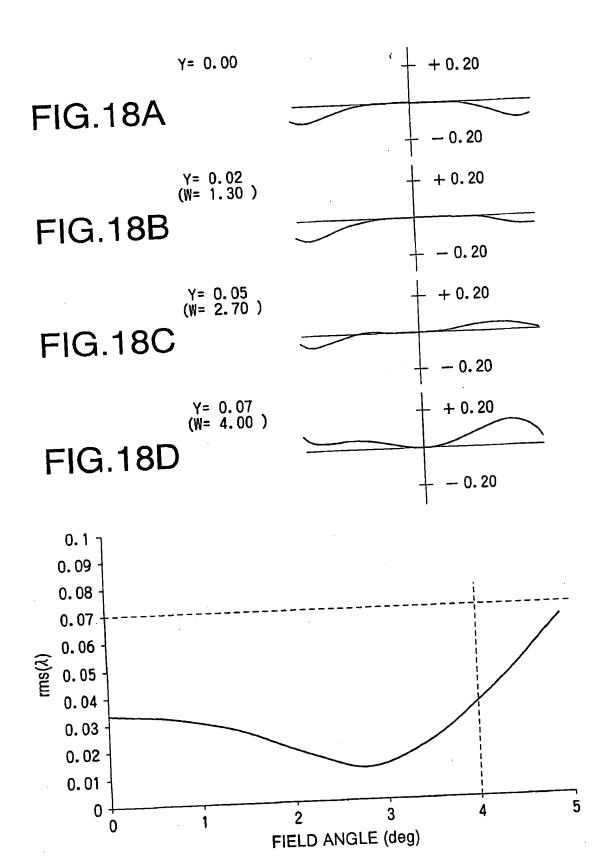
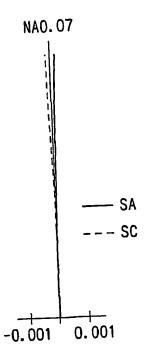


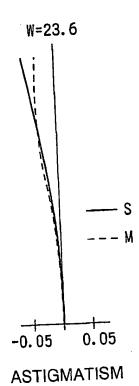
FIG.19

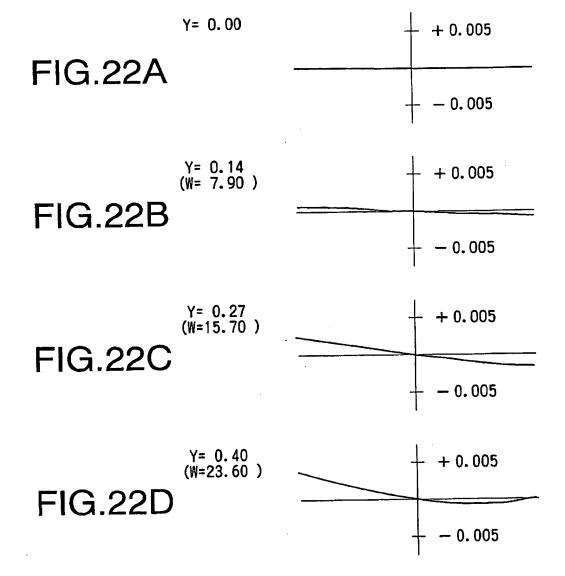
FIG.20



SPHERICAL ABERRATION SINE CONDITION

FIG.21





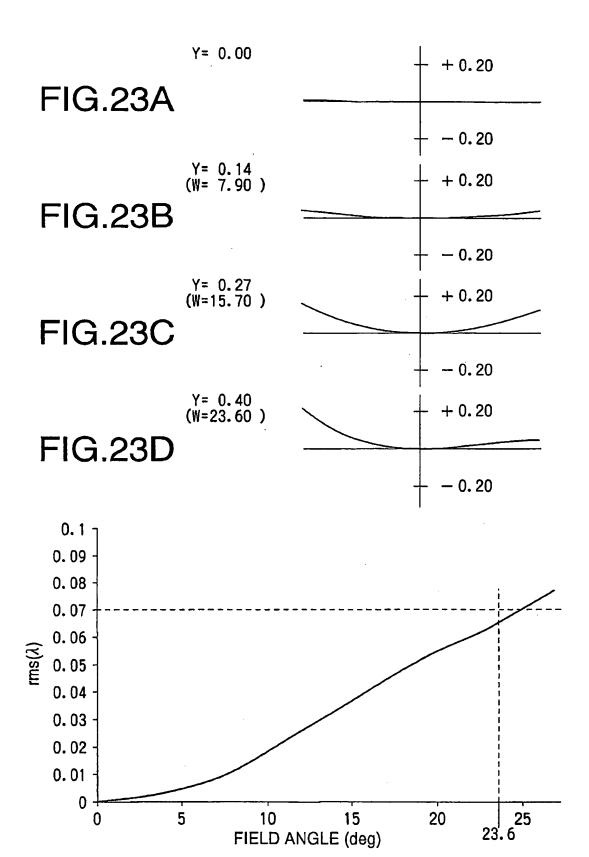


FIG.24

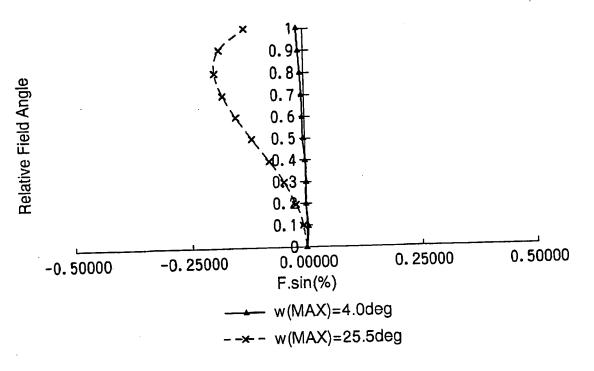


FIG.25

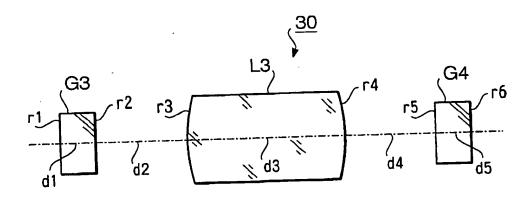
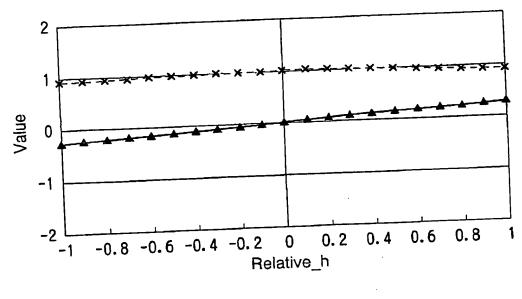


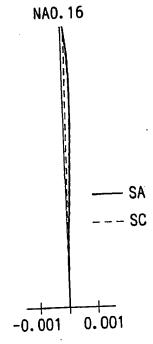
FIG.26



--x - CONDITION(3)

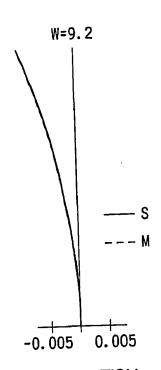
FIG.27





SPHERICAL ABERRATION SINE CONDITION

FIG.29



ASTIGMATISM

$$Y = 0.00$$

FIG.30A

Y = 0.05 (W = 3.10)

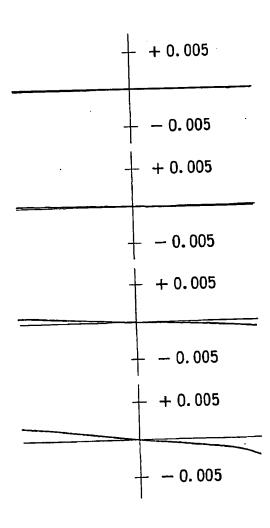
FIG.30B

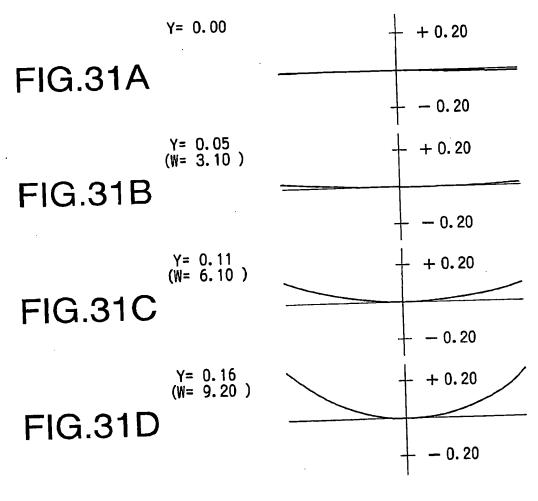
Y= 0.11 (W= 6.10)

FIG.30C

Y= 0.16 (W= 9.20)

FIG.30D





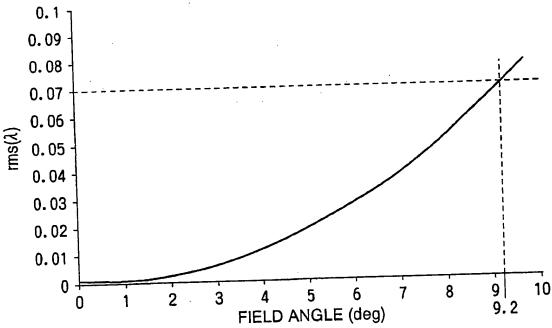
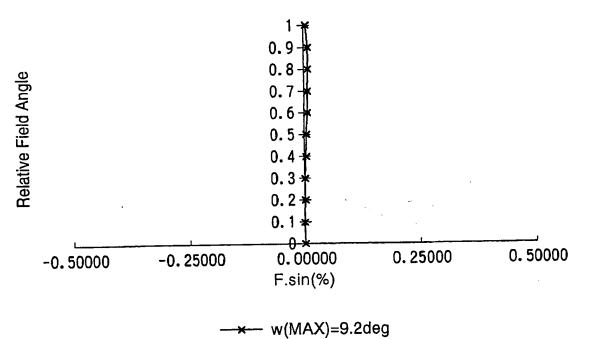
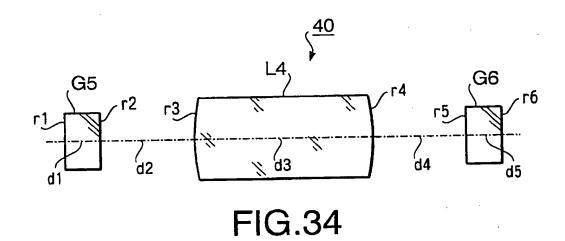


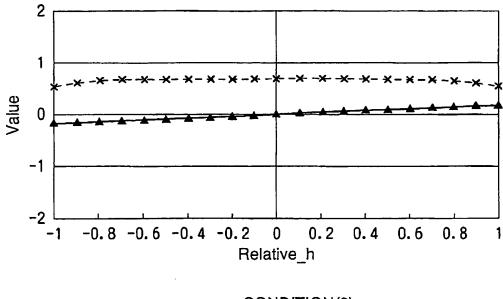
FIG.32



× •• (1417 0×)=0.200;

FIG.33

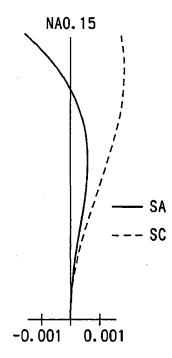




--x-- CONDITION(3)

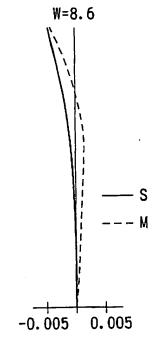
FIG.35





SPHERICAL ABERRATION SINE CONDITION

FIG.37



ASTIGMATISM

$$Y = 0.00$$

FIG.38A

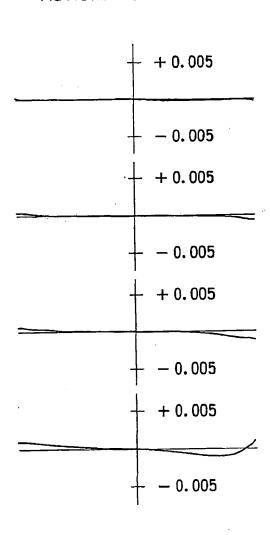
$$Y = 0.05$$
 (W = 2.90)

FIG.38B

$$Y = 0.10$$
 (W = 5.80)

FIG.38C

FIG.38D



0 -

0

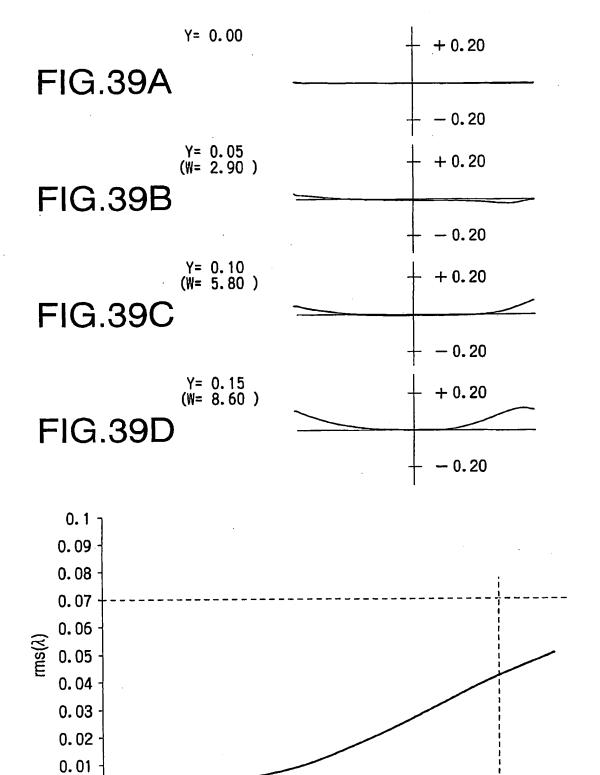


FIG.40

5

FIELD ANGLE (deg)

3

2

8.6

10

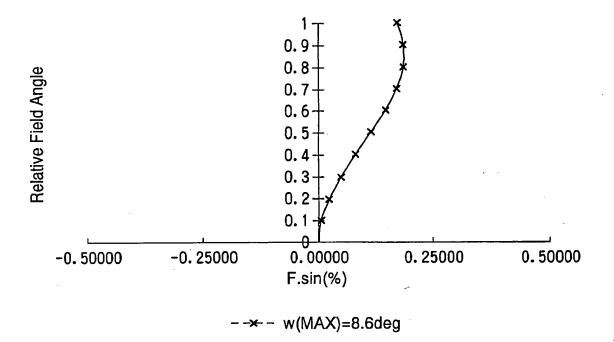


FIG.41

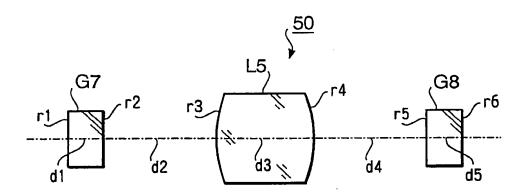
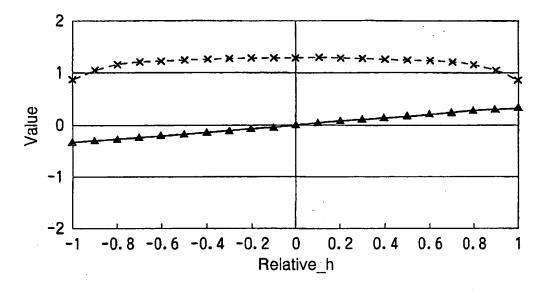


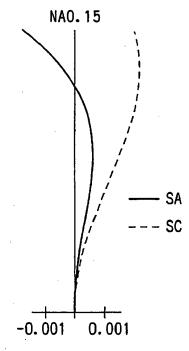
FIG.42



--x-- CONDITION(3)

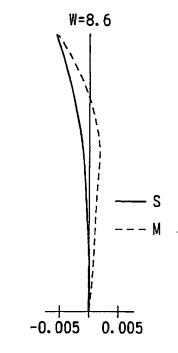
FIG.43

FIG.44



SPHERICAL ABERRATION SINE CONDITION

FIG.45



ASTIGMATISM

$$Y = 0.00$$

FIG.46A

Y= 0.05 (W= 2.90)

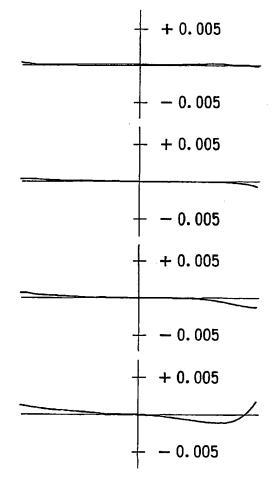
FIG.46B

Y= 0.10 (W= 5.80)

FIG.46C

Y= 0.15 (W= 8.60)

FIG.46D



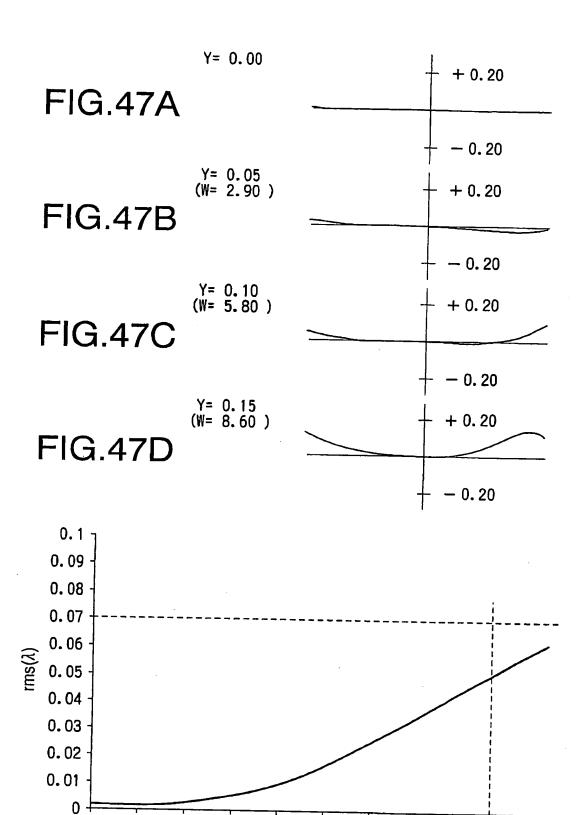


FIG.48

FIELD ANGLE (deg)

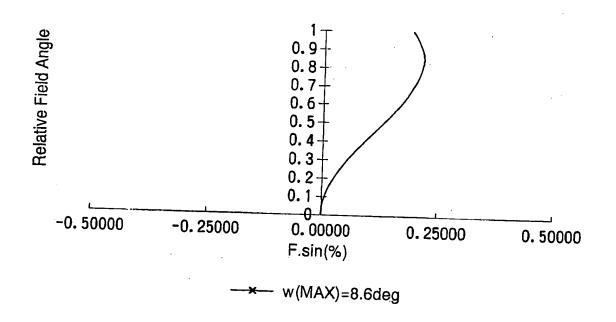


FIG.49